

EXHIBIT G

BF16 multiply, BF16 denormals flushed to 0.

FP32 outputs.

Progress (of 64) 0----- 1----- 2----- 3----- 4----- 5----- 6---

Done.

Total number of inputs checked= 4294967296(100000000)

Valid inputs don't produce NaN, Overflow (Inf), or Underflow (i.e. 0 when exact is not 0).

Number of Valid Inputs to Multiply 3350151479(c7af4137)

error range [50.00%,100.00%),	valid inputs in range 0.08% (2700095),	in or above range= 0.08%
error range [20.00%, 50.00%),	valid inputs in range 0.15% (5109711),	in or above range= 0.23%
error range [10.00%, 20.00%),	valid inputs in range 0.18% (5907529),	in or above range= 0.41%
error range [5.00%, 10.00%),	valid inputs in range 0.19% (6387513),	in or above range= 0.60%
error range [2.00%, 5.00%),	valid inputs in range 0.28% (9221370),	in or above range= 0.88%
error range [1.00%, 2.00%),	valid inputs in range 3.46% (116045037),	in or above range= 4.34%
error range [0.50%, 1.00%),	valid inputs in range 50.87% (1704338364),	in or above range=55.21%
error range [0.20%, 0.50%),	valid inputs in range 37.45% (1254486305),	in or above range=92.66%
error range [0.10%, 0.20%),	valid inputs in range 5.48% (183692434),	in or above range=98.14%
error range [0.05%, 0.10%),	valid inputs in range 1.38% (46212515),	in or above range=99.52%
error range [0.02%, 0.05%),	valid inputs in range 0.39% (13231540),	in or above range=99.92%
error range [0.01%, 0.02%),	valid inputs in range 0.06% (1988505),	in or above range=99.98%
error range [0.00%, 0.01%),	valid inputs in range 0.02% (830561),	in or above range=100.00%

Of all possible inputs (more than valid inputs)

NaN 0.78% (33488896 counts)

Inf 12.52% (537754624 counts)

Und 8.70% (373572297 counts)

Summary for spreadsheet. Inputs bf16z. Output fp32.

4.34%

55.21%

92.66%

98.14%

99.52%

0.78%

12.52%

8.70%

ignore: nan